

ABSTRACT

A composite restraint system composed of a composite restraint strap, a patch and a tensioning tool for restraining freight during transportation. The composite restraint strap includes a first layer and a second layer. The first layer includes a plurality of strands of
5 yarn having a specified percentage of elongation before breaking and a specified creep. The second layer includes a nonwoven fabric. The composite restraint strap is capable of being attached to a floor or a wall of a transportation device in order to restrain the freight from movement. The composite restraint strap is typically tightened across the freight using the tensioning tool and held in place during transportation with the patch having a
10 permanent-type adhesive for preventing the taut composite restraint strap from losing tension. The patch may be pre-attached to a strap prior to installation around freight.